

3. The knowledge map of claim 1, wherein said graph is a hierarchical graph.

4. (Amended) The knowledge map representation of claim 1, further comprising at least one knowledge instance associated with at least one node of said taxonomies;

[whereby] wherein the at least one association [is] includes a classification of the knowledge instance within the knowledge domain.

5. (Amended) The knowledge map representation of claim 1, wherein [each] at least one of said taxonomies [is one of:] comprises a topic taxonomy, in which each node of the topic taxonomy represents one or more topics and [the] an association of a knowledge [container] instance with a node of said topic taxonomy indicates that [the] at least some content of the knowledge [container] instance is about the topic represented by that node[;].

[a filter taxonomy, in which each node of the filter taxonomy represents meta-data which are characteristics of knowledge containers that cannot be readily derived from the content of the knowledge container and the association of a knowledge container with a node of said filter taxonomy indicates that the knowledge container has the characteristic represented by that node; or

a lexical taxonomy, in which each node of the lexical taxonomy represents concepts in the knowledge domain that are identifiable by one or more specific words or phrases and the association of a knowledge container with a node of said lexical taxonomy indicates that the knowledge container has one or more instances of the words or phrases indicative of the concept represented by that node.]

6. (Amended) The knowledge map representation of claim 1, wherein [each] at least one of said taxonomies [is one of] comprises [:] a process taxonomy, in which each node of the process taxonomy represents a step in one or more business processes, and [the] an association of a knowledge [container] instance with a node of said process taxonomy indicates that [the] at least some content of the knowledge [container] instance is pertinent to the step represented by the node[;].

[an environment taxonomy, in which each node of the environment taxonomy represents

at least one entity;

a diagnostic taxonomy, in which each node of the diagnostic taxonomy represents at least one symptom of a problem and the association of a knowledge container with a node of said diagnostic taxonomy indicates that the content of the knowledge container describes a method to address that symptom;

a human characteristics taxonomy, in which each node of the human characteristics taxonomy represents attributes (e.g., address, height, weight, etc.), and the association of a knowledge container with a node of the human characteristics taxonomy indicates that the content of the knowledge container concerns the attribute represented by the node;


an entitlement taxonomy, in which each node of the entitlement taxonomy represents an access control level of permission for viewing the content or accessing the resources of knowledge containers and the association of a knowledge container with a node of said entitlement taxonomy indicates that the knowledge container is to have the access control level specified by that node; or

a standard taxonomy, in which each node of the standard taxonomy represents topics, and the association of a knowledge container with a node of the standard taxonomy indicates that the content of the knowledge container concerns the topic represented by the node.]

7. A knowledge map representation as in claim 6, wherein the at least one entity is a person, place, organization, product, family of products, or a customer segment.

8. (Amended) The knowledge map representation of claim 1, wherein a taxonomic distance function between nodes is associated with [each] at least one pair of nodes of a taxonomy and is a function of the graphical representation of the taxonomy.

9. (Amended) The knowledge map representation of claim 8, wherein [each] the at least one pair of nodes includes a parent node and a child node, and wherein the taxonomic distance function for the pair of nodes in the direction from the parent node to the child node is different than for the direction from the child node to the parent node.



10. (Amended) The knowledge map representation of claim 8, wherein the taxonomic distance function for [each] the at least one pair of nodes of a taxonomy at least partially depends on how deep in the taxonomy [are] is the pair of nodes.

11. (Amended) The knowledge map representation of claim 8, wherein the taxonomic distance function includes one or more parameters incorporated manually by a human user, [whereby] wherein the taxonomic distance function accounts for human knowledge about a semantic distance between [concept] nodes in the taxonomy.

12. (Amended) The knowledge map representation of claim 11, wherein the manually incorporated one or more parameters are represented in an editable table [that facilitates] to facilitate computing the taxonomic distance function for a particular pair of nodes.

13. (Amended) The knowledge map representation of claim 8, wherein the taxonomic distance function for a pair of nodes of a taxonomy at least partially depends on a type of that taxonomy.

14. (Amended) The knowledge map representation of claim 1, wherein the knowledge map includes a plurality of knowledge map regions, wherein each knowledge map region [is] comprises a group of one or more nodes collectively representing a coherent subdomain of knowledge.

15. The knowledge map representation of claim 14, wherein all nodes in a particular knowledge map region are in the same taxonomy.

16. (Amended) The knowledge map representation of claim 15, wherein:  
taxonomic distance between nodes is a function of the graphical representation into which the taxonomy is organized;  
the knowledge map region is generally centered about a particular central node; and  
the nodes that are members of the region are those nodes having [the least] a lower

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taxonomic distance from the particular central node than nodes that are not members of the region associated with the particular central node.

17. (Amended) The knowledge map representation of claim 15, wherein:  
one or more knowledge containers are associated with at least some of the nodes; and  
the nodes that are a member of the region have a similarity of vocabulary in the content  
of their associated knowledge containers [associated with the nodes].

18. (Amended) The knowledge map representation of claim 15, wherein:  
the knowledge map region is generally centered about a particular central node;  
one or more knowledge containers are associated with at least some of the nodes; and  
the nodes that are members of the region are (1) those nodes having [the least] less  
taxonomic distance from the particular central node than nodes that are not members of the  
region, and also (2) for which there is similar vocabulary in the content of their associated  
knowledge containers [associated with the nodes].

Please enter the following new claims 98-113.

98. (New) The knowledge map representation of claim 1, wherein at least one of said taxonomies comprises a filter taxonomy, in which each node of the filter taxonomy represents meta-data, which are characteristics of knowledge instances that cannot be readily derived from the content of the knowledge instance, and an association of a knowledge instance with a node of said filter taxonomy indicates that the knowledge instance includes the characteristic represented by that node.

99. (New) The knowledge map representation of claim 1, wherein at least one of said taxonomies comprises a lexical taxonomy, in which each node of the lexical taxonomy represents a concept in the knowledge domain that is identifiable by one or more specific words or phrases, and an association of a knowledge instance with a node of said lexical taxonomy indicates that the knowledge instance includes one or more instances of the words or phrases indicative of the

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concept represented by that node.

100. (New) The knowledge map representation of claim 1, wherein at least one of said taxonomies comprises an environment taxonomy, in which each node of the environment taxonomy represents at least one entity.

101. (New) The knowledge map representation of claim 1, wherein at least one of said taxonomies comprises a diagnostic taxonomy, in which each node of the diagnostic taxonomy represents at least one symptom of a problem, and an association of a knowledge instance with a node of said diagnostic taxonomy indicates that at least some content of the knowledge instance describes a method to address that symptom.

102. (New) The knowledge map representation of claim 1, wherein at least one of said taxonomies comprises a human characteristics taxonomy, in which each node of the human characteristics taxonomy represents one or more personal human attributes (e.g., address, height, weight, etc.), and an association of a knowledge instance with a node of the human characteristics taxonomy indicates that at least some content of the knowledge instance concerns at least one attribute represented by the node.

103. (New) The knowledge map representation of claim 1, wherein at least one of said taxonomies comprises an entitlement taxonomy, in which each node of the entitlement taxonomy represents an access control level of permission for viewing content or accessing resources of knowledge instances, and an association of a knowledge instance with a node of said entitlement taxonomy indicates that the knowledge instance is to have the access control level specified by that node.

104. (New) The knowledge map representation of claim 1, wherein at least one of said taxonomies comprises a standard taxonomy, in which each node of the standard taxonomy represents one or more topics, and an association of a knowledge instance with a node of the standard taxonomy indicates that at least some content of the knowledge container concerns the

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topic represented by the node.

105. (New) The knowledge map representation of claim 1, wherein at least one of said taxonomies comprises an environment taxonomy, in which each node of the environment taxonomy represents at least one entity comprising a person.

106. (New) The knowledge map representation of claim 1, wherein at least one of said taxonomies comprises an environment taxonomy, in which each node of the environment taxonomy represents at least one entity comprising a place.

107. (New) The knowledge map representation of claim 1, wherein at least one of said taxonomies comprises an environment taxonomy, in which each node of the environment taxonomy represents at least one entity comprising an organization.

108. (New) The knowledge map representation of claim 1, wherein at least one of said taxonomies comprises an environment taxonomy, in which each node of the environment taxonomy represents at least one entity comprising a product.

109. (New) The knowledge map representation of claim 1, wherein at least one of said taxonomies comprises an environment taxonomy, in which each node of the environment taxonomy represents at least one entity comprising a family of products.

110. (New) The knowledge map representation of claim 1, wherein at least one of said taxonomies comprises an environment taxonomy, in which each node of the environment taxonomy represents at least one entity comprising a customer segment.

111. (New) A knowledge map comprising:

a plurality of separate taxonomies, each separate taxonomy representing a discrete perspective of a knowledge domain; and

wherein each taxonomy comprises nodes and edges connecting nodes, each node



AMENDMENT AND RESPONSE UNDER 37 C.F.R. 1.111

Serial No.: 09/594083  
Filed: June 15, 2000  
Title: SYSTEM AND METHOD FOR IMPLEMENTING A KNOWLEDGE MANAGEMENT SYSTEM

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corresponding to a conceptual area within the discrete perspective that the taxonomy represents, and each edge representing a relationship between the conceptual areas to which the nodes connected to that edge correspond.

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112. (New) The knowledge map of claim 111, in which each separate taxonomy represents a discrete perspective that is orthogonal to the other discrete perspectives represented by the other separate taxonomies.

113. (New) The knowledge map of claim ~~113~~<sup>111</sup>, further comprising at least one association between a knowledge container and a node, and wherein the association classifies the knowledge container within the knowledge domain.

**REMARKS**

Applicant submits this Amendment and Response to the Office Action mailed on October 31, 2002, and the references cited therewith. Claims 4-6, 8-14, 16-18 are amended. Claims 19-97 are canceled. Claims 98-113 are added. As a result, claims 1-18 and 98-113 are now pending in this application.

**Affirmation of Election**

The Office Action imposed restriction to one of the following groups of claims:

- I. Claims 1-18, drawn to knowledge map representation, classified in class 707, subclass 500.
- II. Claims 19-33, 85, drawn to knowledge container indicator, classified in class 707, subclass 104.1.
- III. Claim 34, drawn to process of using a tag to generate a summary of knowledge containers method, classified in class 707, subclass 102.
- IV. Claims 35-40, drawn to autocontextualization method, classified in class 707, subclass 103R.
- V. Claims 41-43, drawn to organization of contiguous entities, classified in class 707, subclass 500.

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